CE 503: Computational Methods in Water Resources Engineering Lab (0- 0-6-3)

Suggested list of experiments:

- 1. Computational experiments for nonlinear equations, interpolation, differentiation and evaluation.
- 2. Computational experiments for initial and boundary value problems by finite difference method.
- 3. Computational experiments for Newton's method, variation and weighted residual methods.
- 4. Simple computer models for; surface water systems, subsurface water system.
- 5. Computational experiment for Irrigation engineering and management
- 6. Computational experiment for coastal engineering problems

References:

- 1. Scarborough, J. B., "Numerical mathematical analysis", Oxford & IBH Publishing CO Pvt.
- 2. Jain, K. K., Iyengar, S. R. K., "Numerical methods-problem and solutions", Wiley eastern limited.